

Name _____

Date _____

Additional Exercises 3.4**Form I**

The Slope-Intercept Form of the Equation of a Line

Find the slope of the line with the given equation.

1. $y = -8x$

1. _____

2. $y = 6x - 7$

2. _____

3. $y = 10$

3. _____

4. $y = \frac{1}{4}x + 3$

4. _____

5. $y = 9 - x$

5. _____

Solve each equation for y , to put the equation in slope intercept form. Then find the slope and the y -intercept of the line.

6. $3x + y = 8$

6. _____

7. $2x + y = 0$

7. _____

8. $4x - y = 7$

8. _____

9. $y = 2$

9. _____

10. $2x + 3y = 6$

10. _____

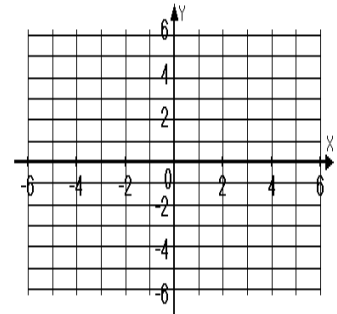
Name _____

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Graph the linear equation using the slope and y-intercept.

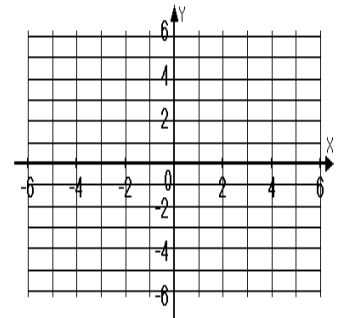
11. $y = 2x - 4$

11.



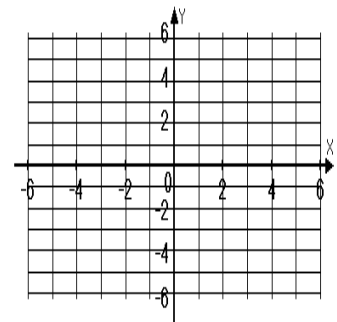
12. $y = -3x + 2$

12.



13. $y = -\frac{1}{3}x$

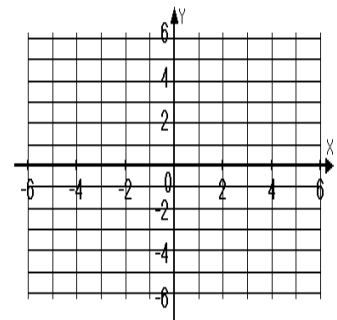
13.



(a) Graph both linear equations on the rectangular coordinate system and (b) decide whether or not the lines are parallel.

14. $y = 2x + 3$
 $y = 2x - 1$

14.



15. When a tow truck is called, the cost of service is given by the linear function $y = 3x + 65$, where y is in dollars and x is the number of miles the car is towed. Find and interpret the slope and the y-intercept of the linear equation.

15. _____

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Additional Exercises 3.4**Form II**

The Slope-Intercept Form of the Equation of a Line

Find the slope of the line with the given equation.

1. $y = -\frac{2}{3}x + 4$

1. _____

2. $y = \frac{3}{5}x - 1$

2. _____

3. $y = -5$

3. _____

4. $y = 5x$

4. _____

5. $y = 7 - 2x$

5. _____

Solve each equation for y , to put the equation in slope intercept form. Then find the slope and the y -intercept of the line.

6. $3x + 4y = 16$

6. _____

7. $2x - 4y = 4$

7. _____

8. $x - 6y = 12$

8. _____

9. $3y = -9$

9. _____

10. $2x + 4y = -2$

10. _____

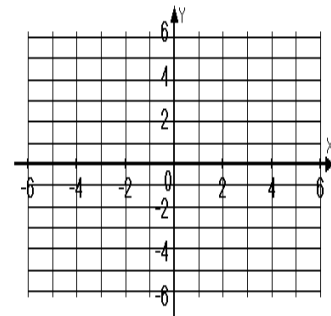
Name _____

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Graph the linear equation using the slope and y-intercept.

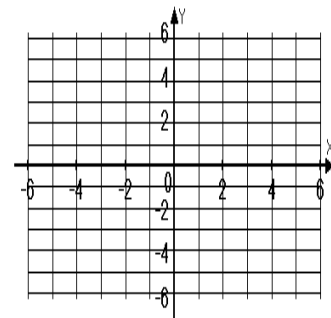
11. $2x + 4y = -16$

11.



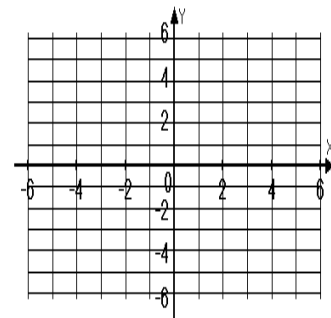
12. $3x - y = 2$

12.



13. $5y = -2x + 10$

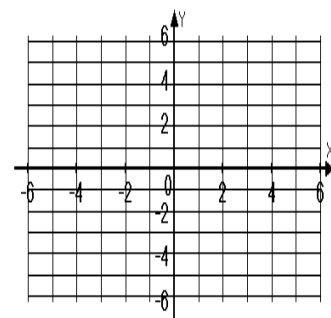
13.



(a) Graph both linear equations on the rectangular coordinate system and (b) decide whether or not the lines are parallel.

14. $y = x - 4$
 $y = -x + 4$

14.



15. The amount of water in a leaky bucket is given by the linear function $y = 110 - 3x$, where y is in ounces and x is in minutes. Find and interpret the slope and y-intercept of the linear equation.

15. _____

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Additional Exercises 3.4**Form III**

The Slope-Intercept Form of the Equation of a Line

Find the slope and the y-intercept of the line with the given equation.

1. $y = \frac{4}{3}x + 5$

1. _____

2. $y = -3x - 7$

2. _____

3. $y = x$

3. _____

4. $y = 8$

4. _____

5. $y = 6 - \frac{1}{3}x$

5. _____

Solve each equation for y, to put the equation in slope intercept form. Then find the slope and the y-intercept of the line.

6. $2x - y = 11$

6. _____

7. $-3y = 2x + 5$

7. _____

8. $x - 4y = 4$

8. _____

9. $-3y = -12$

9. _____

10. $-6x + 8y = 8$

10. _____

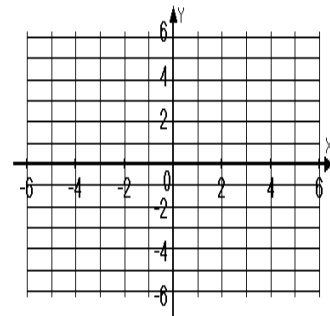
Name _____

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Graph the linear equation using the slope and y-intercept.

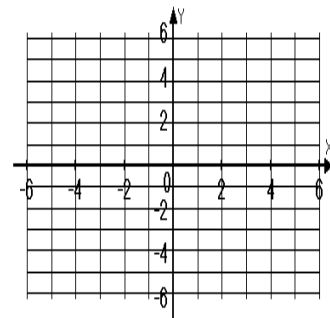
11. $3x + y = -2$

11.



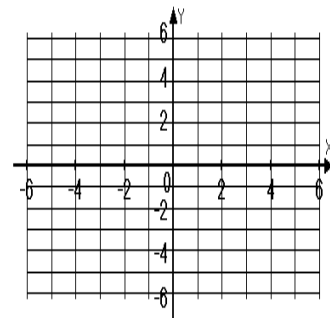
12. $5x - 2y = 4$

12.



13. $3x = 2y$

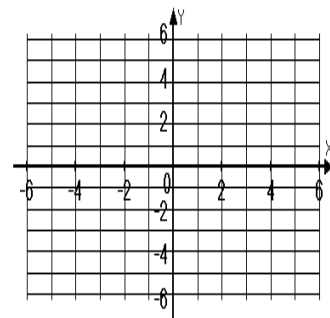
13.



(a) Graph both linear equations on the rectangular coordinate system and (b) decide whether or not the lines are parallel.

14. $3x - y = -2$
 $x + 3y = 6$

14.



15. The speed of a ball dropped from a tower is given by the linear function $y = 32x$, where y is in feet per second and x is the number of seconds since the ball was dropped. Find and interpret the slope and y-intercept of the linear equation.

15. _____